THOMSON MULTI MEDIA

Brandt FERGUSON **NORDMENDE** SABA **TELEFUNKEN** **THOMSON**

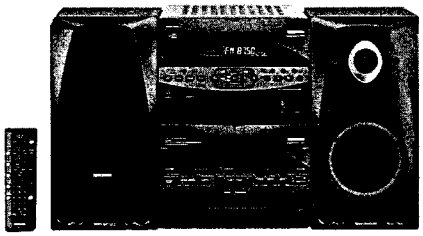
AUDIO

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

THOMSON ALTIMA PRO 300

Version (PC*) : A

*PC : The version code is indicated either in the battery compartment or on the back of the unit - Ce code version est indiqué dans le compartiment à piles ou au dos de l'appareil - PC : Version des Geräts wird im Batteriefach oder auf der Rückseite angegeben - Il codice della versione è indicato nello scompartimento delle batterie o sul retro dell'apparecchio - El código de la versión está indicado en el compartimento de las pilas o en la parte trasera del aparato.



Technical data - Caractéristiques principales
Technische Daten - Dati tecnici - Caracteristicas del aparato

Type of set : **Type d'appareil :** **Geräteart :** **Tipo d'apparecchio :** **Tipo de aparato :**	Two-in-one horizontal, combination Hifi/CD Ensemble compact stéréophonique Hifi/CD 2er Horizontal Kompaktanlage Hifi/CD Insieme compatto stereofonico Hifi/CD Equipo compacto estereofónico Hifi/CD	280 mm ↕ 392 mm ↗ 365 mm	10 kg
Power supply : **Alimentation :** **Stromversorgung :** **Alimentazione :** **Alimentación :**	230 V ~ 50 Hz	**Nominal output power :** **Puissance nominale de sortie :** **Nennausgangsleistung :** **potenza nominale di uscita :** **Potencia nominal de salida :**	2 x 20 W (Rms)
FM -MF : **MW - PO :** **LW - GO :**	87,5 - 108 MHz 525 - 1620 kHz 150 - 283 kHz	**Sensitivity :** **Sensibilité :** **FM -MF :** **Empfindlichkeit :** **MW - PO :** **Sensibilità :** **LW - GO :** **Sensibilidad :**	4 µV (S/N = 26 dB) 600 µV/m (S/N = 20 dB) 2000 µV/m (S/N = 20 dB)
Frequency response : **Courbe de réponse :** **Frequenzgang :** **Curva di risposta :** **Curva de respuesta :**	125 Hz - 12,5 kHz (-4 dB)	**Signal to noise ratio :** **Rapport signal / bruit :** **Geräuschspannungsabstand :** **Rapporto segnale / disturbo :** **Relación señal / ruido :**	42/44 dB
Wow and fluttter : **Fluctuations :** **Gleichlauf :** **Fluttuazioni :** **Fluctuaciones :**	0,5 %	→	4,75 cm/s
		<< ▶▶ >> << ◀◀ >>	C60 : 170 s
Disc rotation speed : **Vitesse de rotation du disque :** **CD-Drehgeschwindigkeit :** **Velocità di rotazione del disco :** **Velocidad de rotación del disco :**	200 ➡ 500 tr/m	**Frequency response :** **Courbe de réponse :** **Frequenzgang :** **Curva di risposta :** **Curva de respuesta :**	20 Hz - 20kHz (±2 dB)
Dynamic range : **Gamme dynamique :** **Dynamikumfang :** **Dinamica :** **Dinámica :**	82 dB	**Signal to noise ratio :** **Rapport signal / bruit :** **Geräuschspannungsabstand :** **Rapporto segnale / disturbo :** **Relación señal / ruido :**	85 dB

DAD

⚠

WARNING : *Before servicing this set read the safety recommendations.*
ATTENTION : *Avant toute intervention sur cet appareil, lire les recommandations de sécurité.*
ACHTUNG : *Bei jedem Eingriff im Gerät, die Sicherheitsvorschriften beachten.*
ATTENZIONE : *Prima di intervenire sull'apparecchio, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Code : 350 511 80 - 0997 / 4M- ATKD2053 Print. Fischer Druck+Verlag, D-38300 Wolfenbüttel

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CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
LASER KLASSE 1
APARATO CON LASER DE CLASE 1
APPARECCHIO CON LASER DI CLASSE 1

DANGER : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

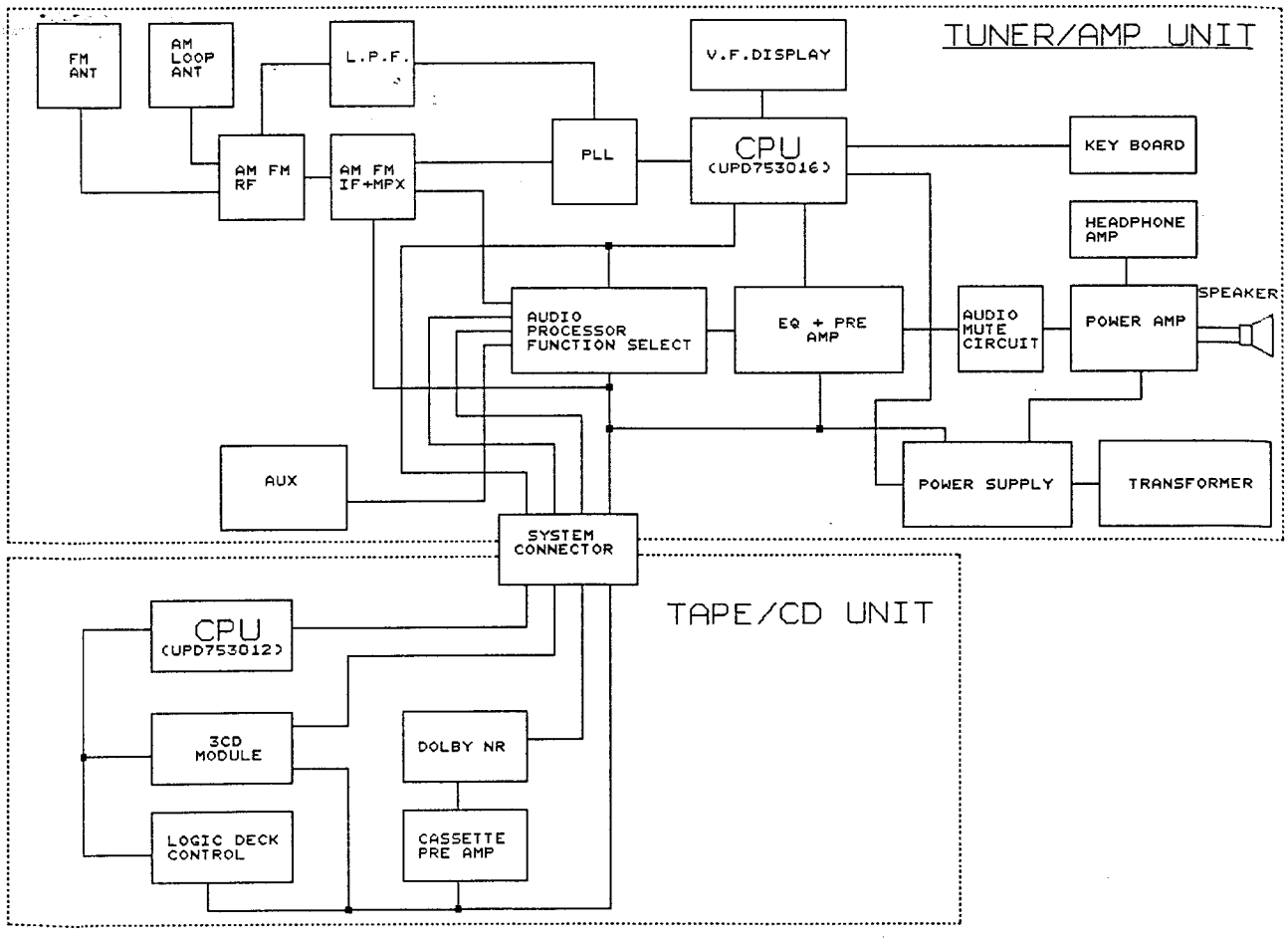
ATTENTION : Le rayon laser est invisible. Eviter l'exposition directe lors de la maintenance.

VORSICHT BEI REPARATUREN : Bei geöffneter Schublade und Defekt der Sicherheits - vorrichtungen besteht die Gefahr unsichtbaren Laserlichts. Niemals direkt in den Laserstrahl sehen.

ATTENZIONE : Il raggio laser è invisible. Evitare l'esposizione diretta durante la manutenzione.

IMPORTANTE : El rayo laser es invisible. Evitar la exposición directa en el momento del mantenimiento.

BLOCK DIAGRAM - SCHÉMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES



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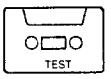
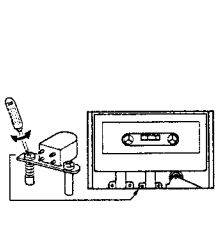
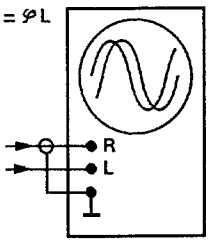
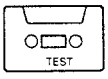
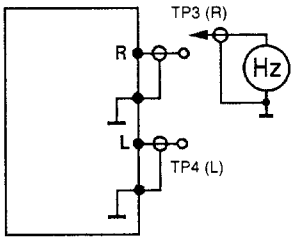
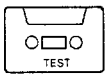
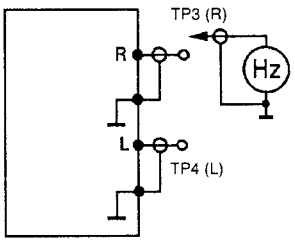
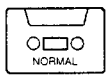
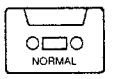
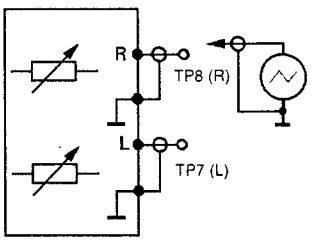
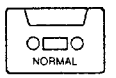
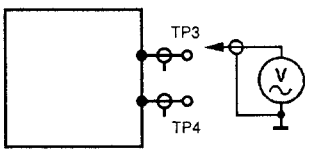
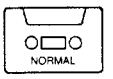
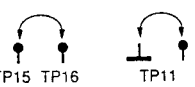
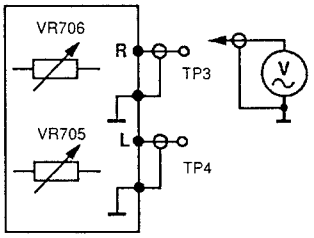
ADJUSTMENTS	REGLAGES	EINSTELLUNGEN	REGOLAZIONE	AJUSTES
1 Tape tension Tension de bande Bandzug Tensione del nastro Tensión de la cinta				40 g / cm < M < 60 g / cm << ◀◀ >> << ▶▶ >> 80 g / cm < M <150 g / cm
2 Azimuth adjustment Réglage d'azimut Tonkopfeinstellung Regolazione di azimut Ajuste de azimut 1 / A 2 / B	 f = 6,3 kHz			φR = φL 
3 Tape speed Vitesse de défilement Bandgeschwindigkeit Velocita del nastro Velocidad de la cinta	 f = 3 kHz	1 / A VR601 2 / B VR602 		f = 3 kHz
4 Tape speed Vitesse de défilement Bandgeschwindigkeit Velocita del nastro Velocidad de la cinta Fast speed Vitesse rapide	 f = 3 kHz	1 / A VR603 2 / B VR604 		f = 4,8 kHz
5 Playback sensitivity Gain en lecture Wiedergabeempfindlichkeit Sensibilità di riproduzione Ganancia en reproducción	f = 3 kHz  ❶ A / 1 ❷ B / 2	❶ VR702 TP3 (R) VR702 TP4 (L) ❷ VR702 TP3 (R) VR702 TP4 (L)		V = 548 mV
6 Bias adjustment Courant de prémagnétisation Vormagnetisierung Corrente di premagnetizzazione Corriente de premagnetización	A / 1 	Norm : VR707 CrO_2 : VR709 Norm : VR708 CrO_2 : VR709 		V = 11 V (Norm) V = 17 V (CrO_2)
7 Record sensitivity Gain en enregistrement Aufnahmeempfindlichkeit Sensibilità registrazione Ganancia en grabación	 AUX CD V = 400 MV			V = 548 mV
8 Record sensitivity Gain en enregistrement Aufnahmeempfindlichkeit Sensibilità registrazione Ganancia en grabación	A / 1  			V = 36 mV

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

AM alignment

		Gf	f	18888 KHZ		V
IF	1	Ve 10 - 100 mV	450 kHz		T 405	max.
MW	2	Gf	522 kHz	522 kHz	T407	TP3 V = 1,3 V ± 0,05V
	3	Ve > 1000 µV/m	603 kHz	603 kHz	T409	max.
	4		1404 kHz	1404 kHz	VC401	
LW	5	Gf	150 kHz	150 kHz	T406	TP3 V = 1,5 V ± 0,05V
	6	Ve > 2500 µV/m	164 kHz	164 kHz	T408	max.
	7		272 kHz	272 kHz	VC402	

FM alignment

		Gf	Δf = 22,5 kHz f = 400 Hz f	18888 KHZ		V
IF	1	Gf Ve > 10 mV	10,7 MHz		T 404	10,7 MHz symétrie
FM	2	Gf 10 µV	87,9 MHz 97,9 MHz 105,9 MHz	87,9 MHz 97,9 MHz 105,9 MHz	TL1 TL3 TL5	max.

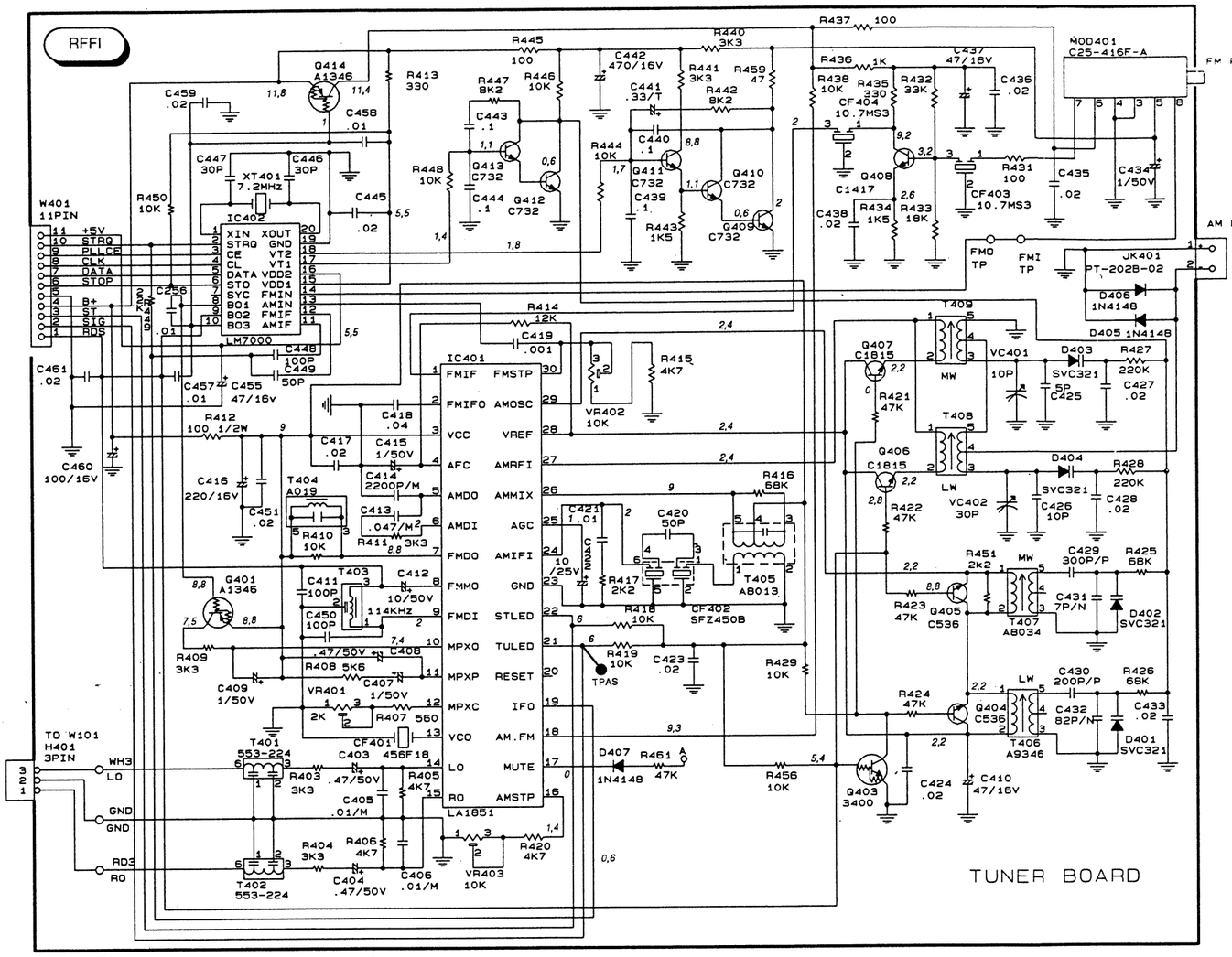
Decoder alignment

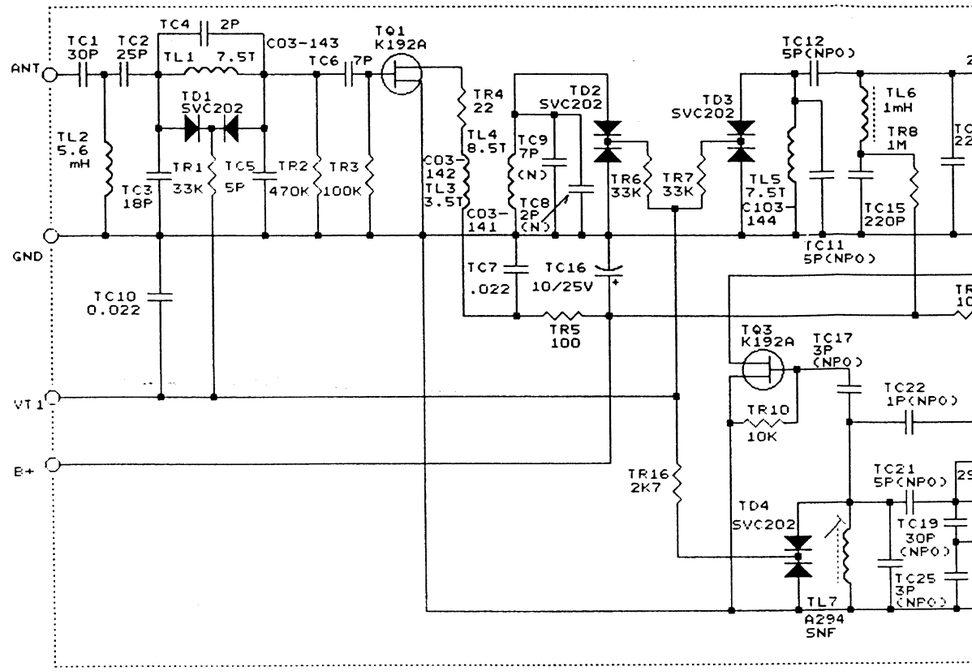
		Gf	f	18888 KHZ		Hz
	1	Ve = 10 mV	98 MHz	98 MHz	VR401	TP3 f = 76 kHz ± 200Hz

Auto stop alignment

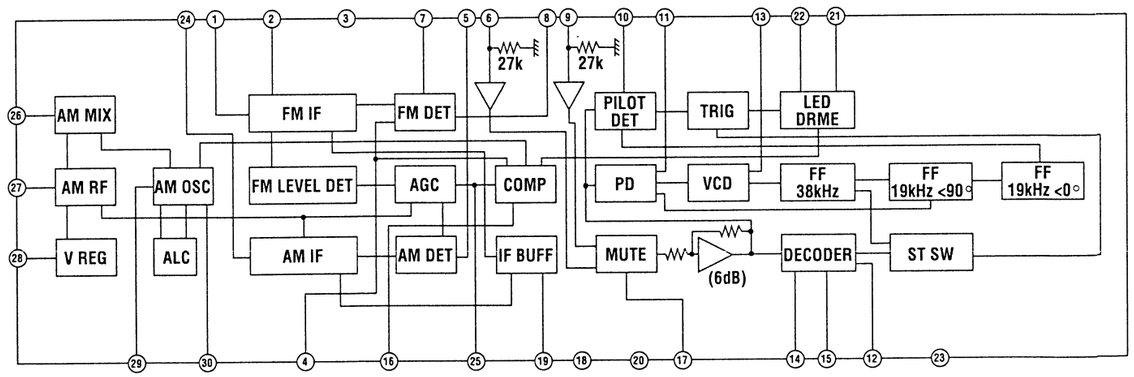
		Gf	f	18888 KHZ		V
	1	Ve = 1 mV	97,9 MHz	97,9 MHz	T 404	TPAS V = 0 V
	2	Ve = 31,62 µV	97,9 MHz	97,9 MHz	VR402	TPAS V = 0 V

RF / FI SCHEMATIC DIAGRAM - SCHEMA HF / FI - HF / ZF SCHALTBILD - SCHEMA HF / FI - ESQUEMA RF / FI

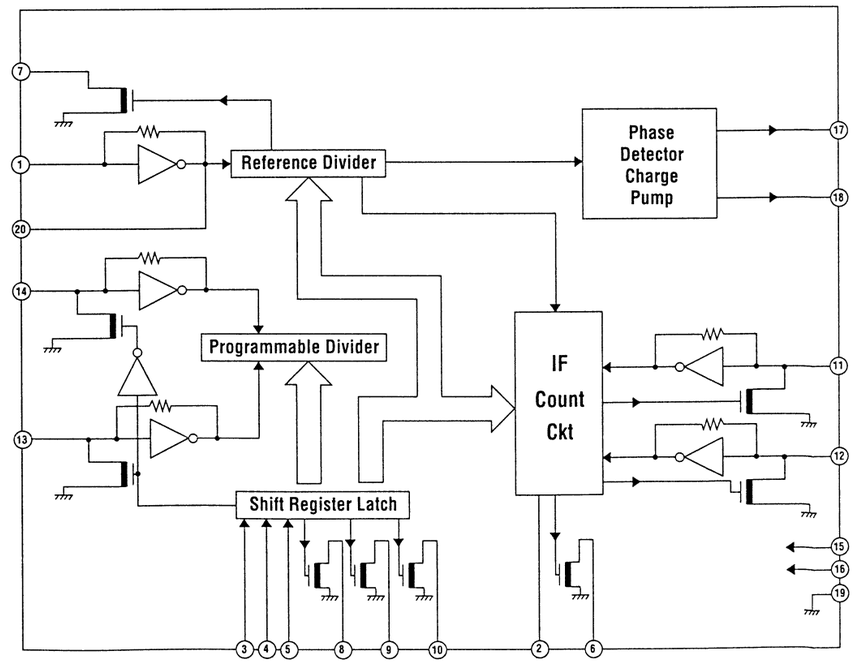




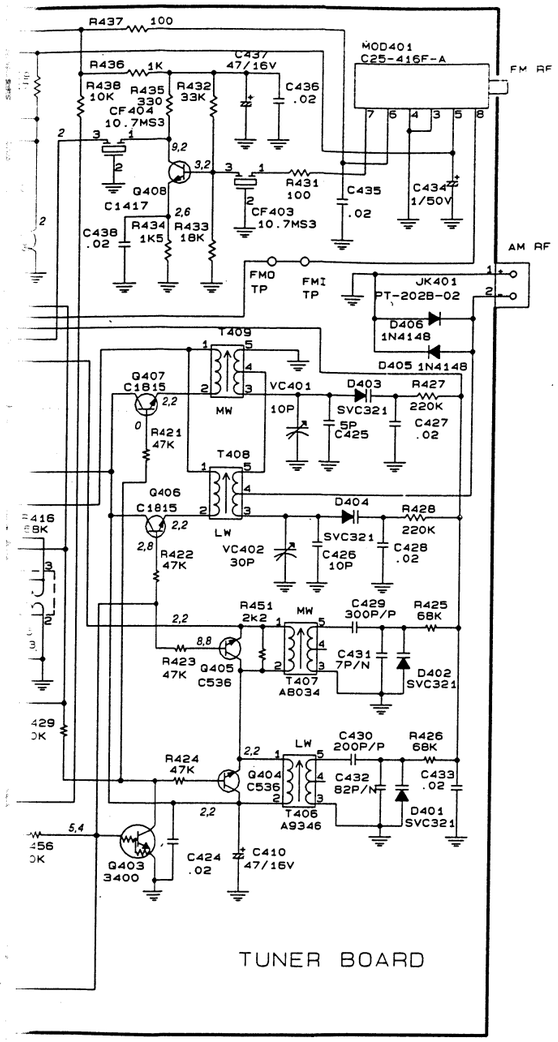
IC401 LA1851N

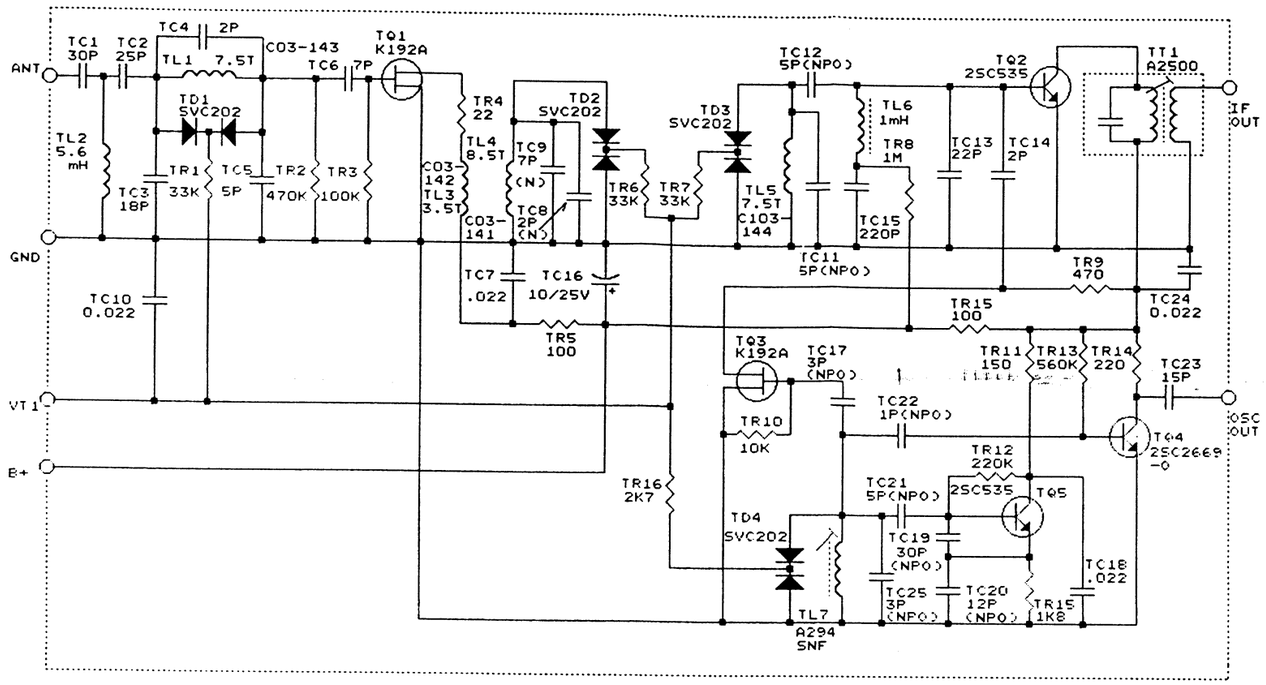


IC402 LM7000

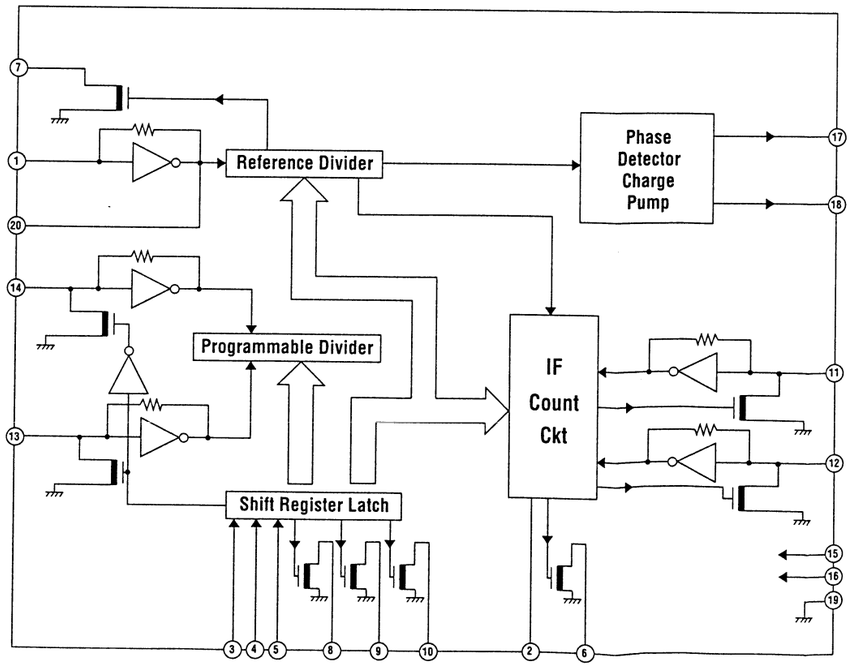


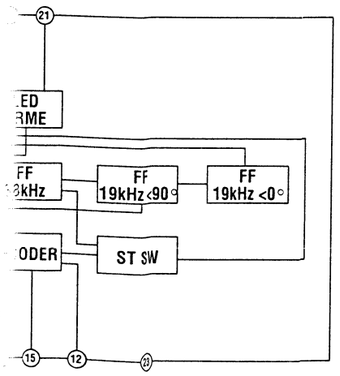
TBILD - SCHEMA HF / FI - ESQUEMA RF / FI



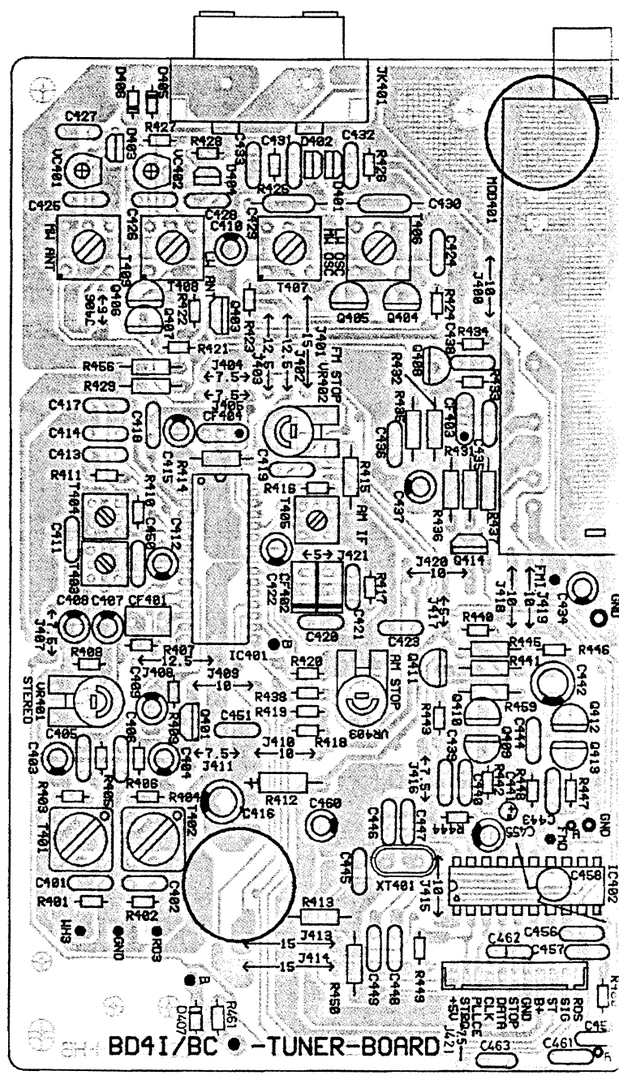


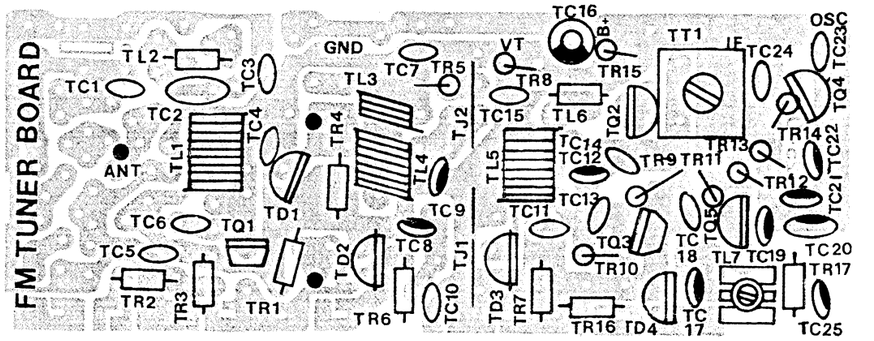
IC402 LM7000



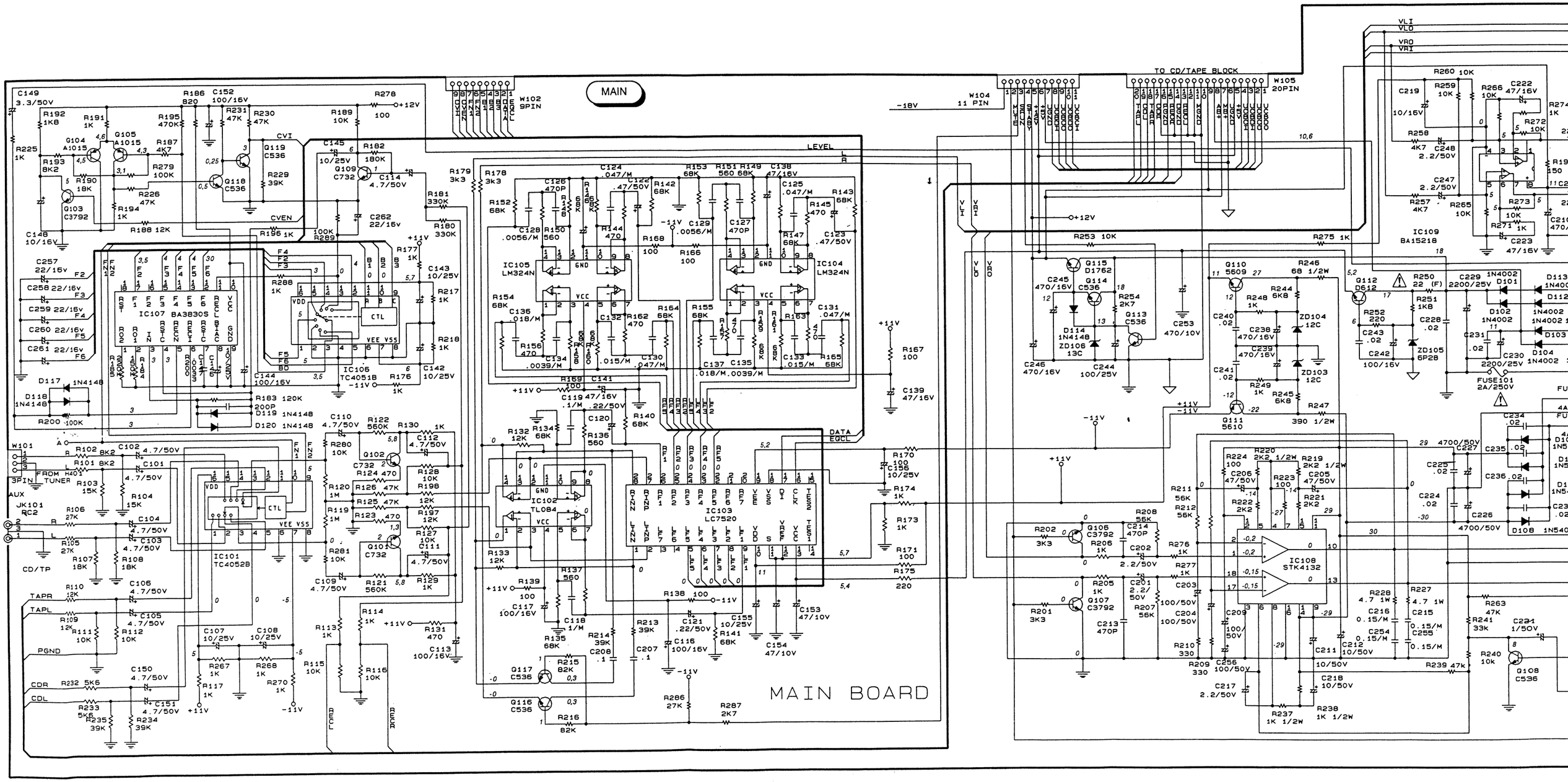


RF /FI P.C.B.
Platine HF / FI
Ltpl. HF / ZF
Piastra RF / FI
Platina RF / FI

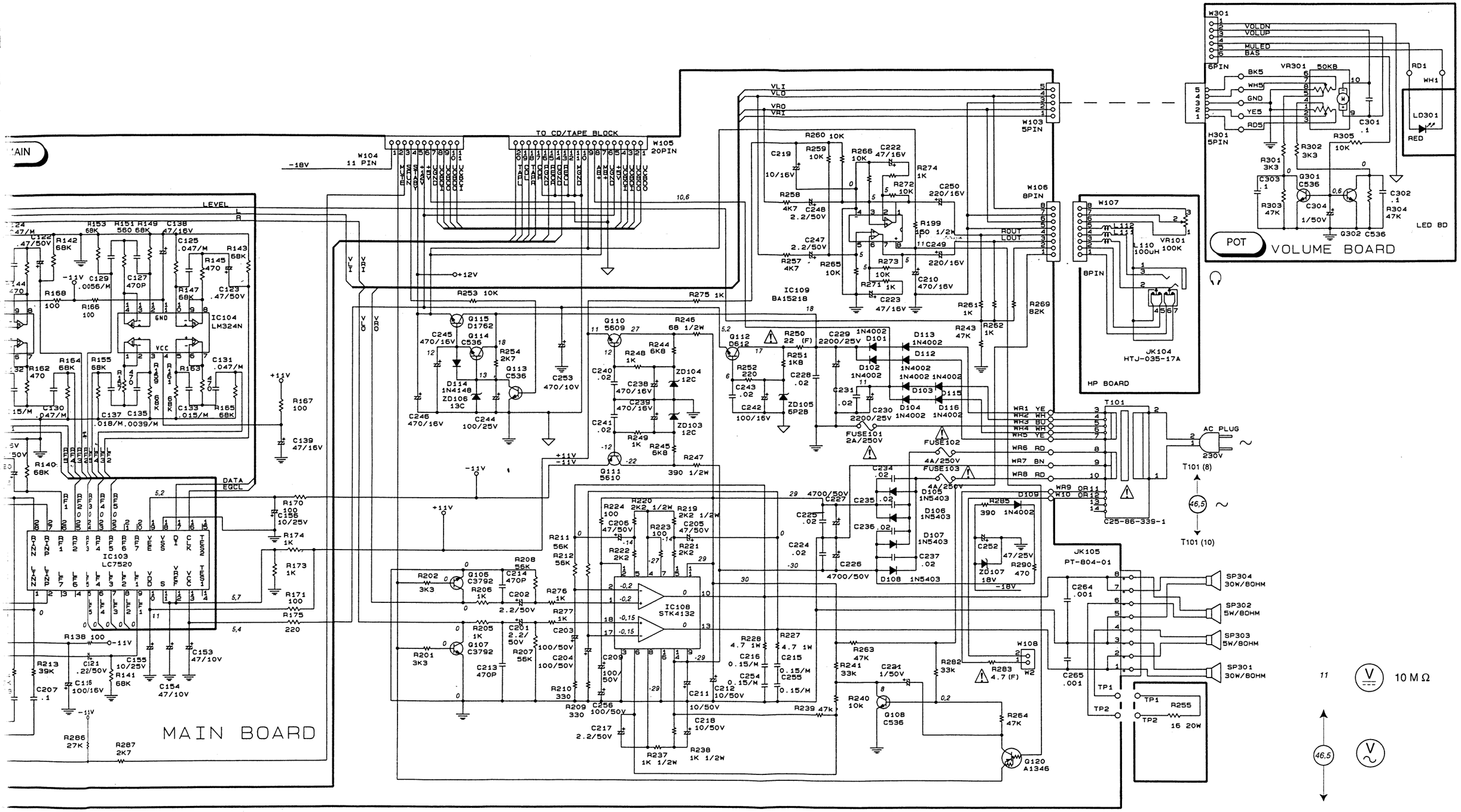




MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL



PLATTE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL



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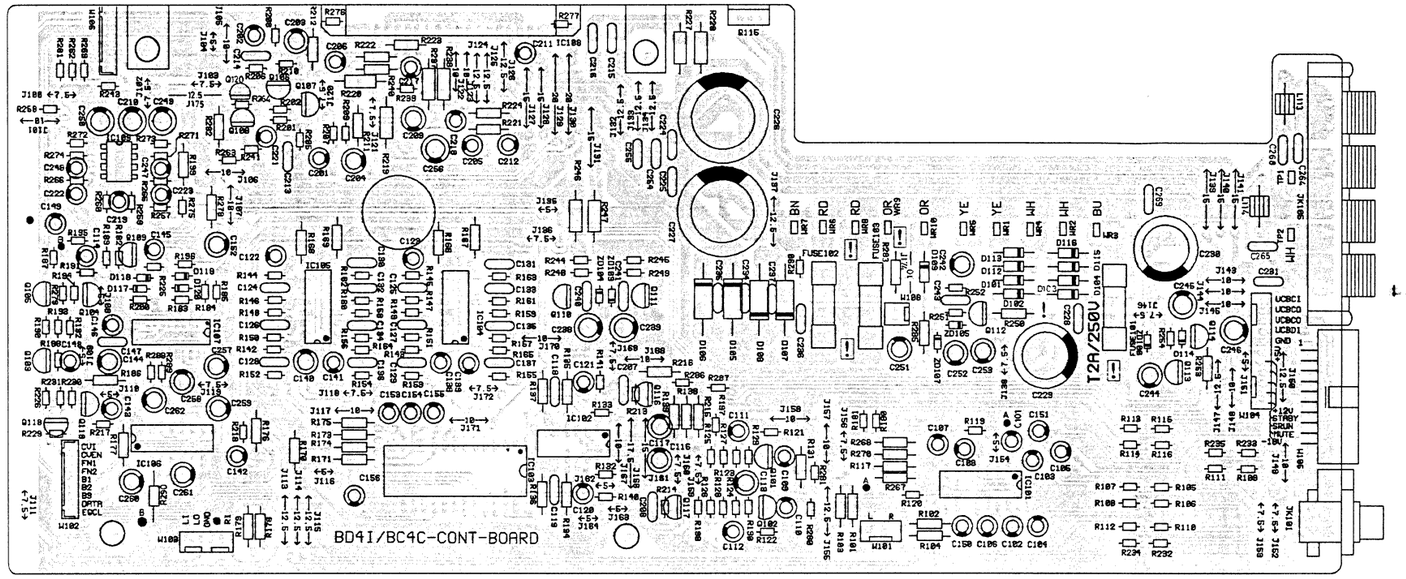
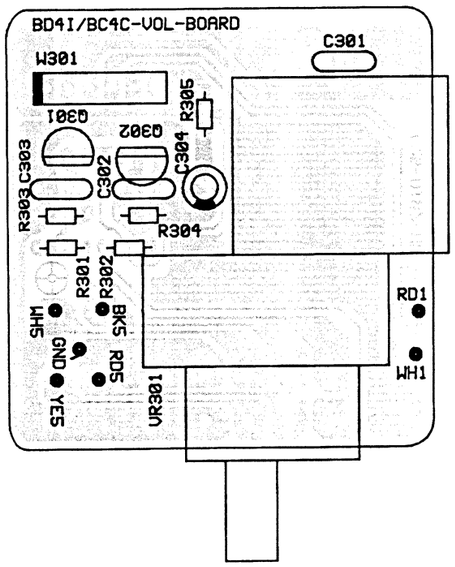
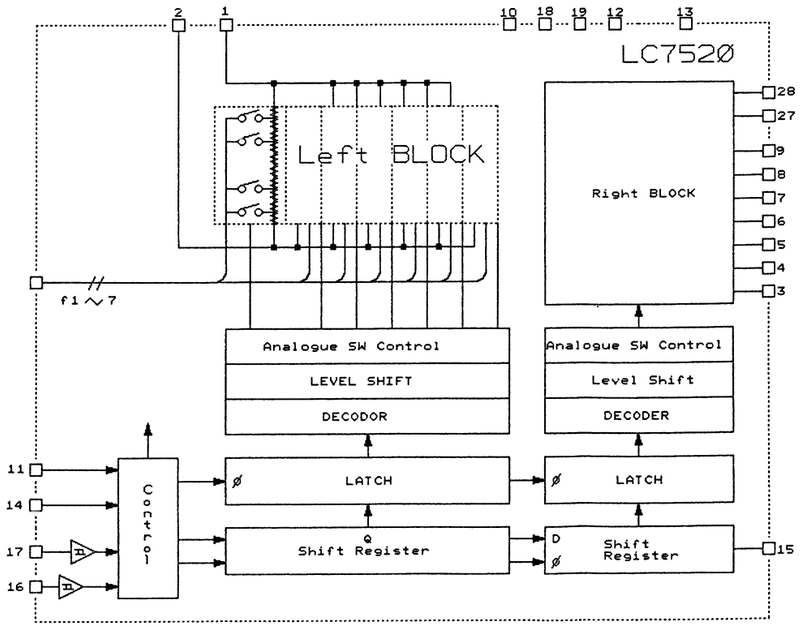
Main P.C.B.
Platine principale
Grundplatte
Piastra principale
Platina principal



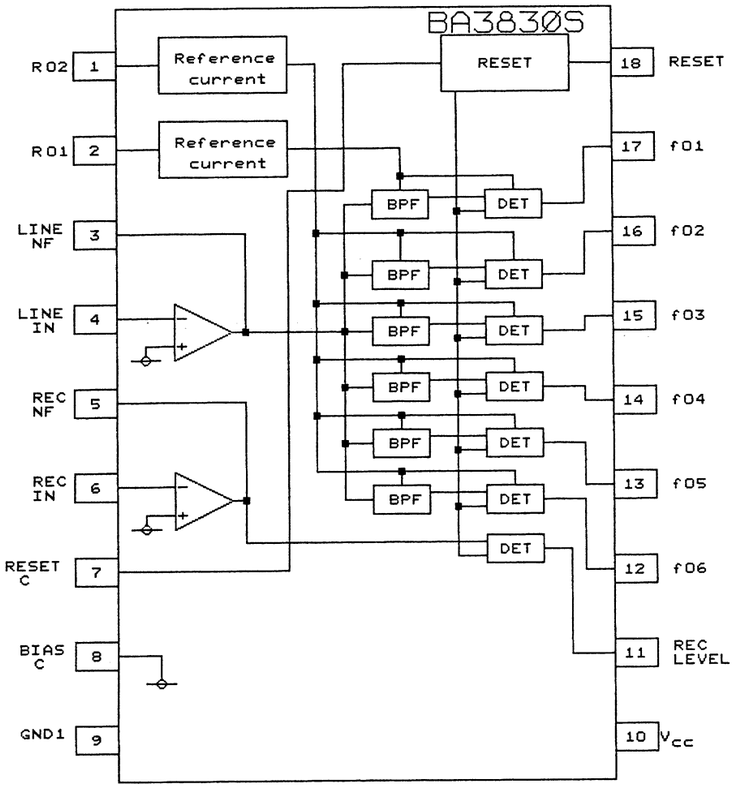
Volume P.C.B.
Platine volume
Ltpl. Lautstärke
Piastra volume
Platina volumen



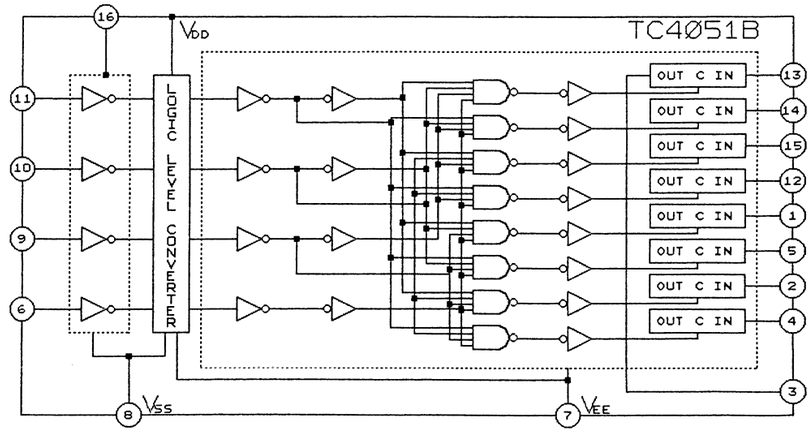
IC103 LC7520



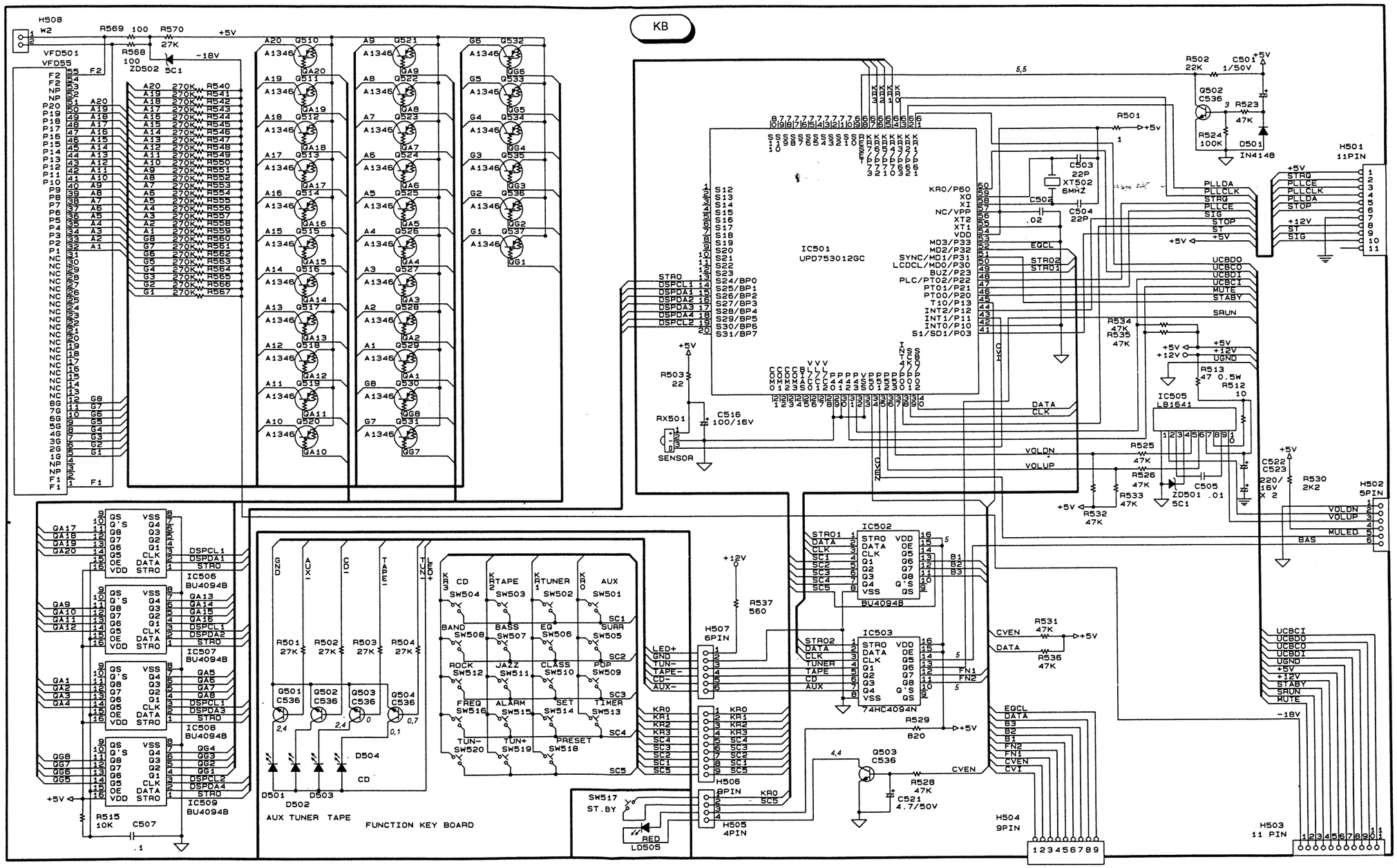
IC107 BA3830S



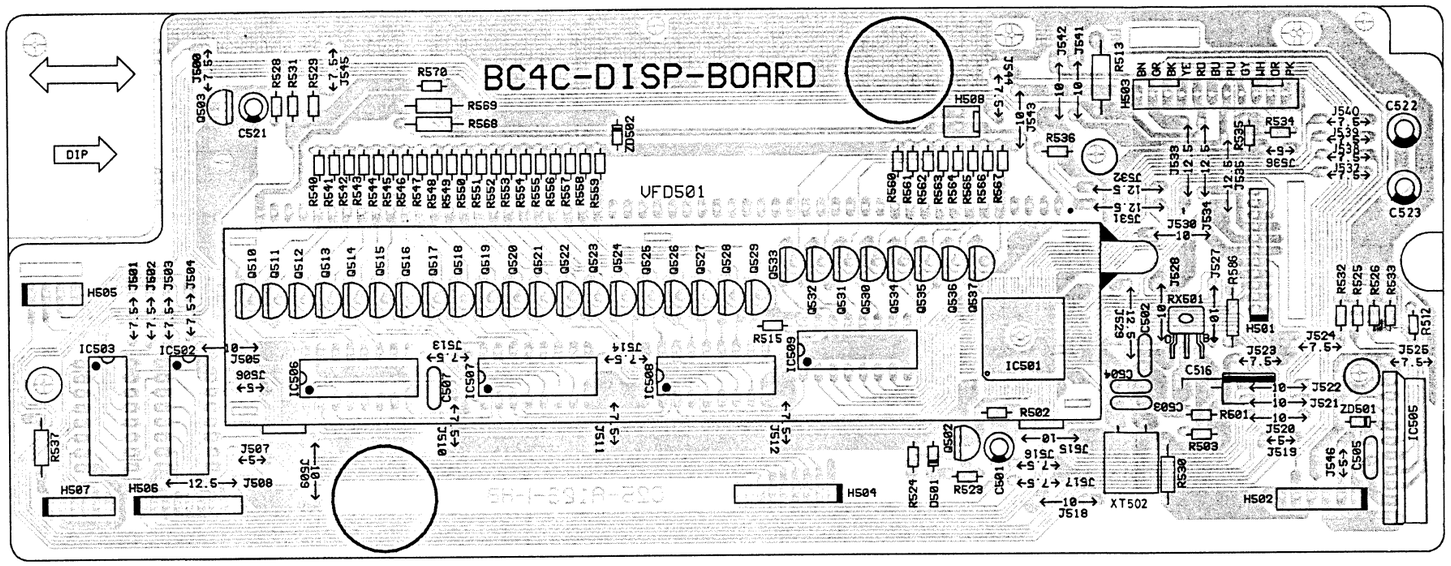
IC106 TC4051B

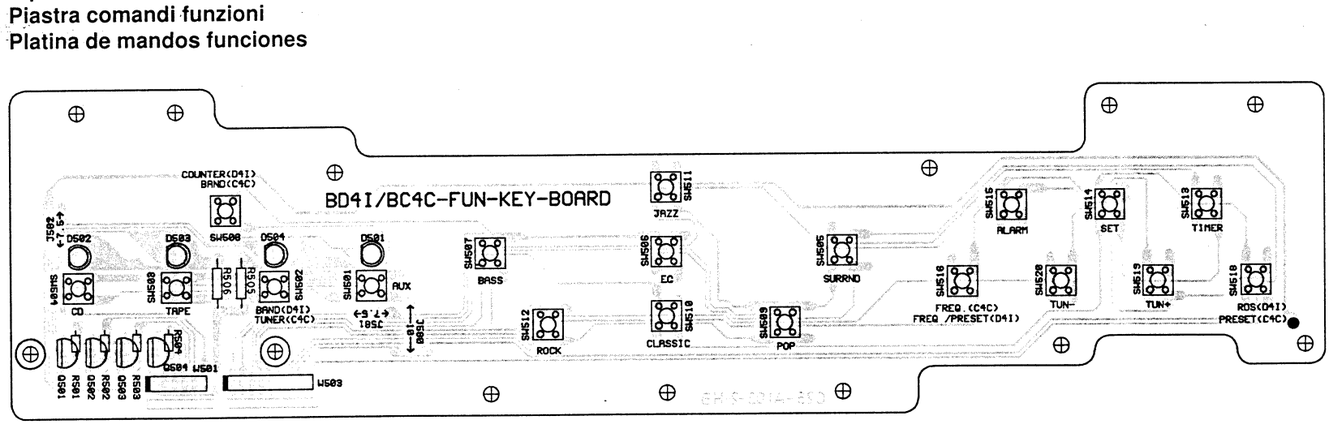


CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR -
BEDIENTEIL / ANZEIGE SCHALTBILD - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / INDICADOR

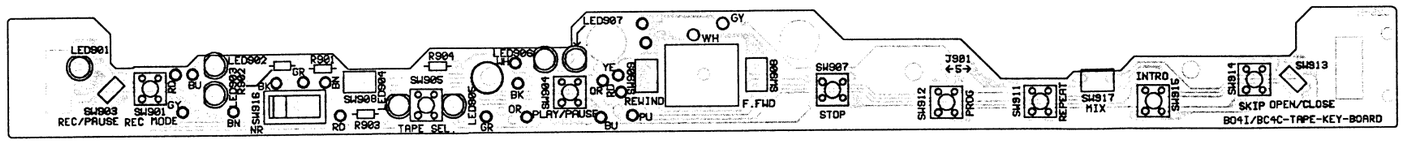


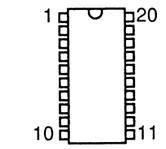
Display P.C.B.
Afficheurs CD
Ltpl. Anzeige
Display CD
Indicadores CD



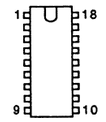


Function controls P.C.B.
Platine commandes fonctions
Ltpl. Funktionsbedienteil
Piastra comandi funzioni
Platina de mandos funciones





LM7000



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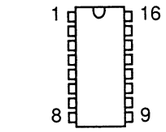

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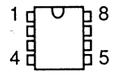
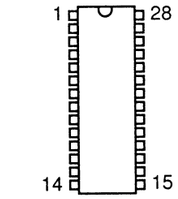
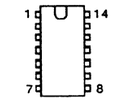


NJM2068
BA15218



LC7520



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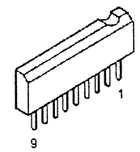
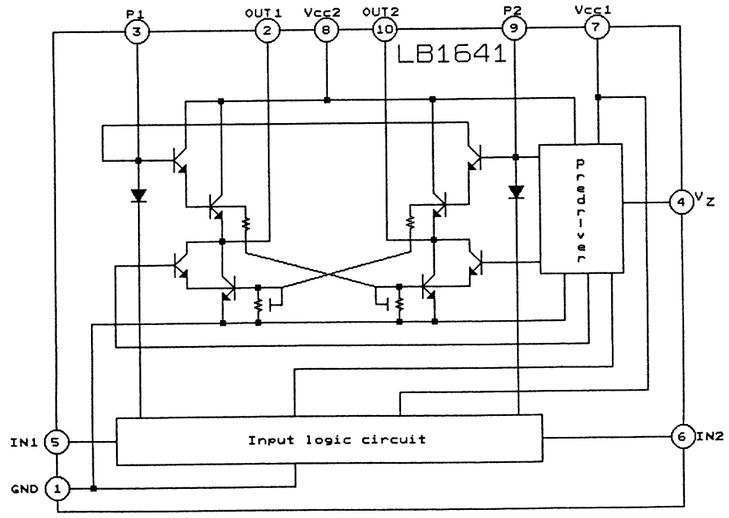
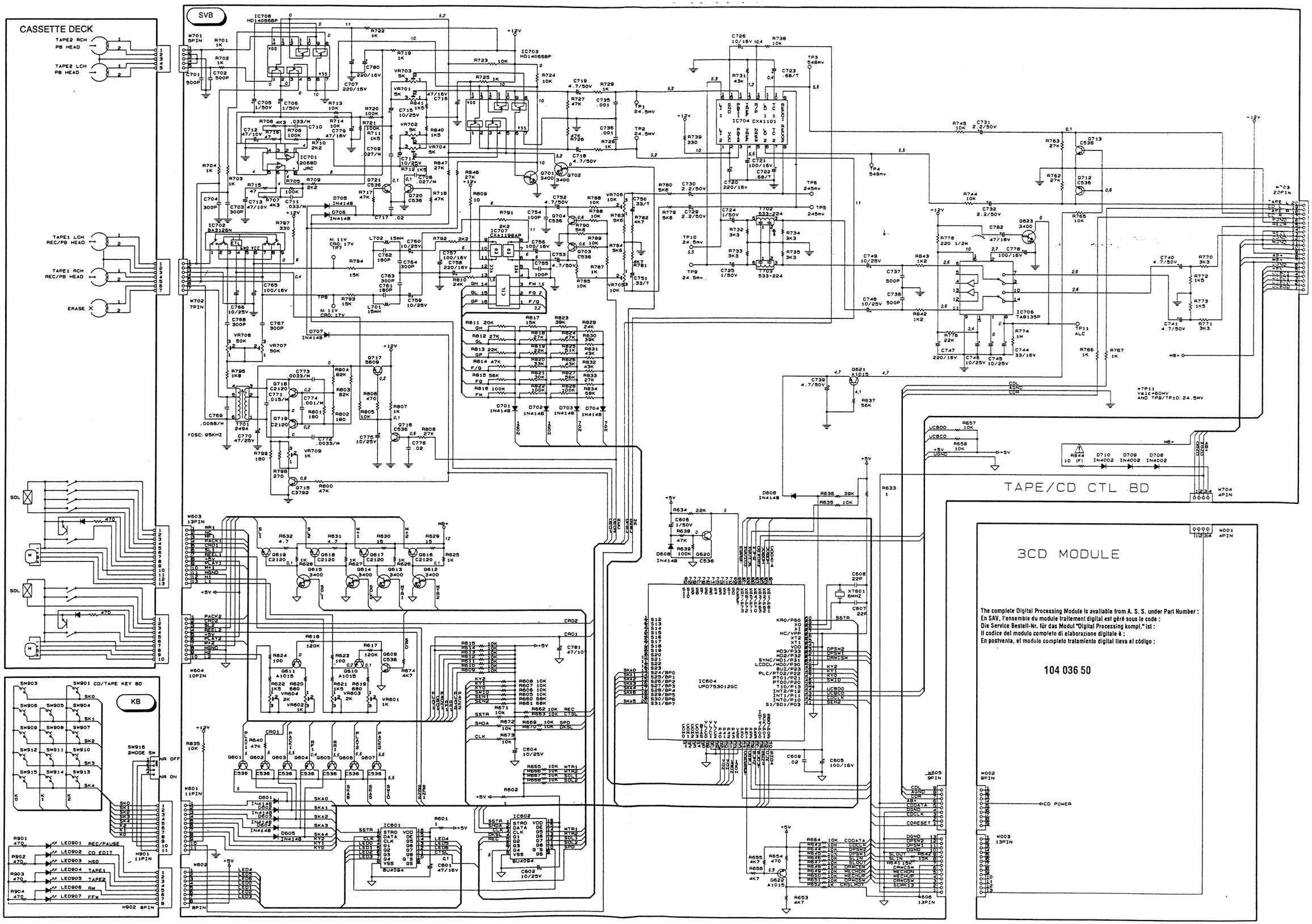


BA3126

IC505 LB1641

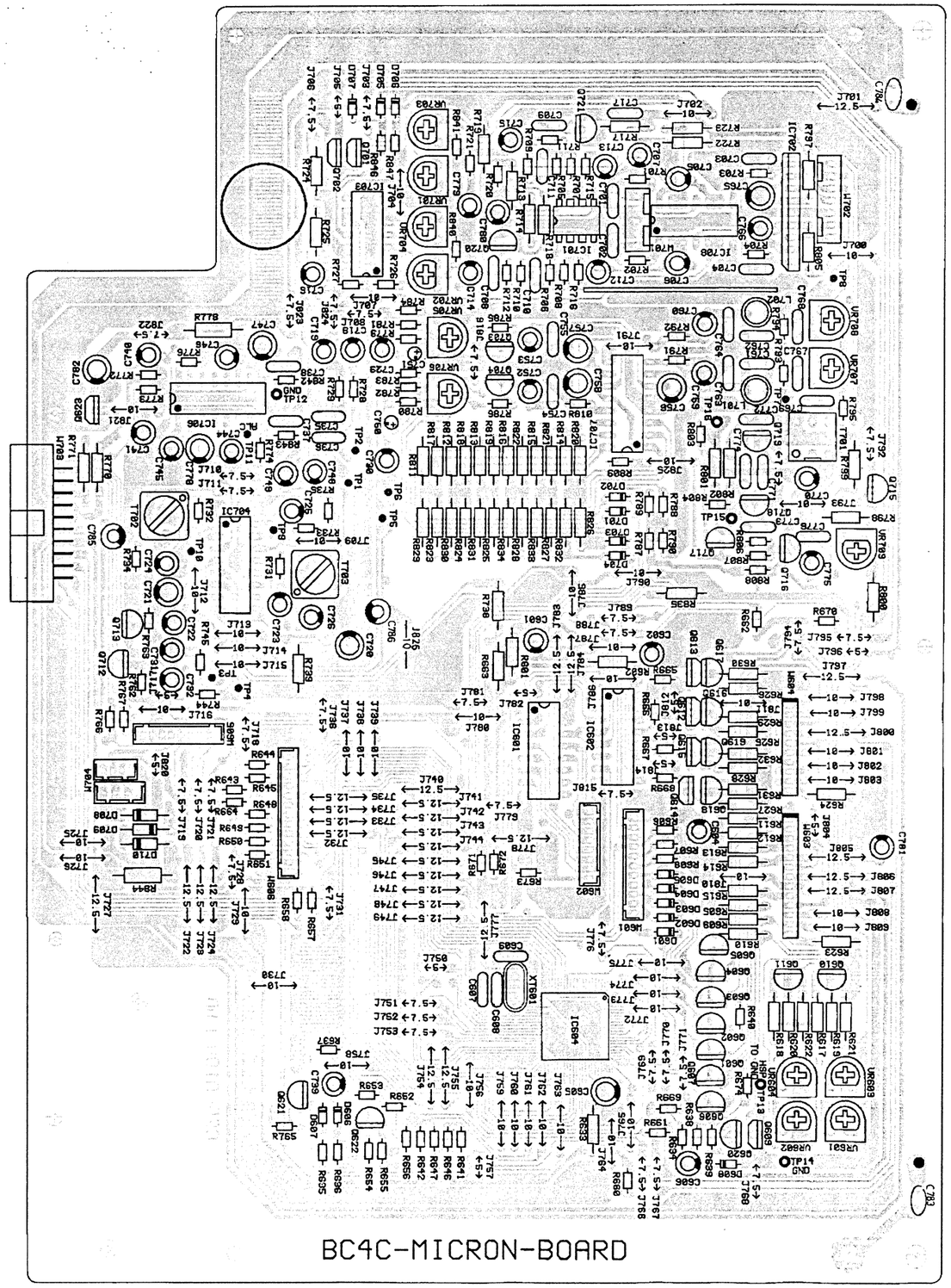


RECORD / PLAYBACK SCHEMATIC DIAGRAM - SCHEMA ENREGISTREMENT / LECTURE - AUFNAHME / WIEDERGABE SCHALTBILD - SCHEMA REGISTRAZIONE / RIPRODUZIONE - ESQUEMA GRABACION / REPRODUCCION

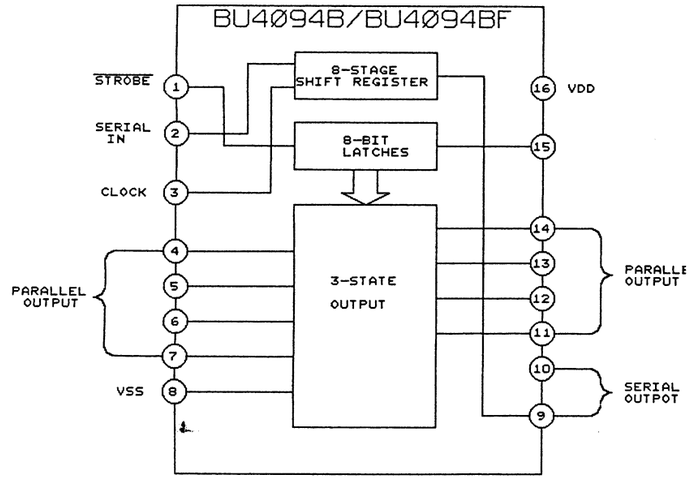

CASSETTE DECK
TAPE2 RCH PB HEAD
TAPE2 LCH PB HEAD
TAPE1 LCH REC/PB HEAD
TAPE1 RCH REC/PB HEAD
ERASE
SOL
SOL
SVB
KB
TAPE/CD CTL BD
3CD MODULE
The complete Digital Processing Module is available from A. S. S. under Part Number :
En SAV, l'ensemble du module traitement digital est géré sous le code :
Die Service Bestell-Nr. für das Modul "Digital Processing kompl." ist :
Il codice del modulo completo di elaborazione digitale è :
En postventa, el modulo completo tratamiento digital lleva el código :
104 036 50

ATKD2053
First issue 09 / 97

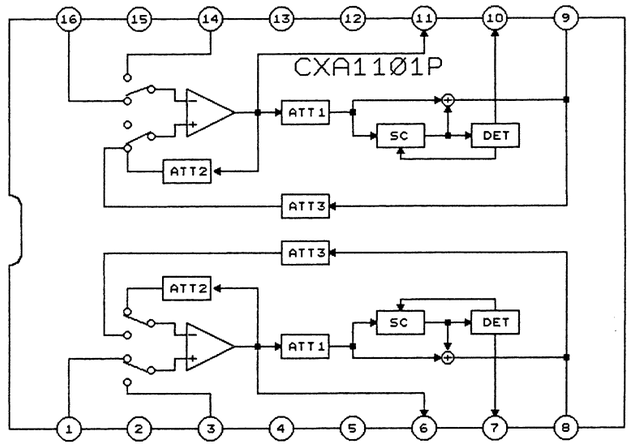
Record / playback and CD control P.C.B.
Platine commandes enregistrement / lecture et CD
Ltpl. Wiedergabe / Aufnahme und CD Bedienteil
Piastra comandi riproduzione / registrazione e CD
Platina de mandos reproducción / grabación y CD



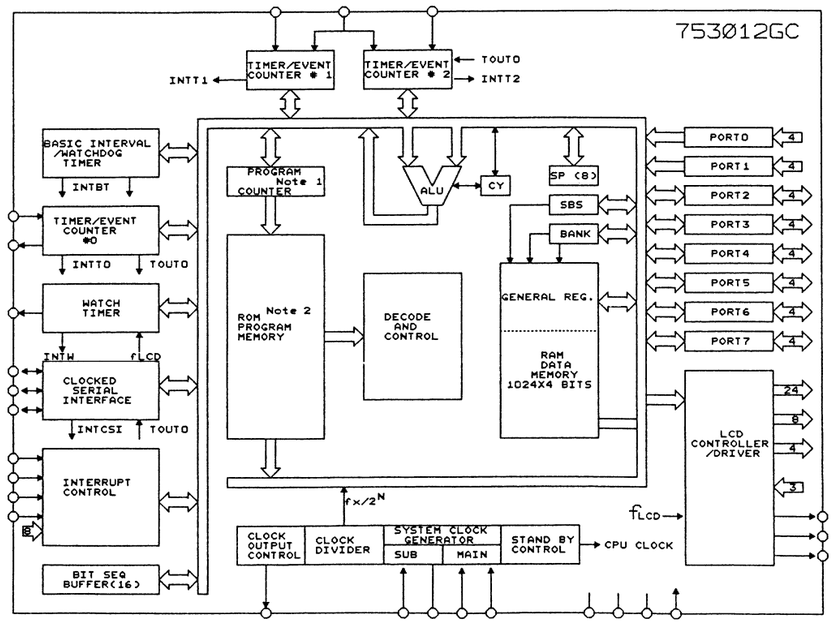
IC502/IC503 - IC601/IC602 BU4094B/BU4094BF



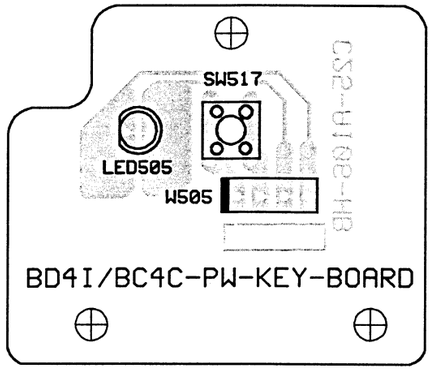
IC704 CXA1101P

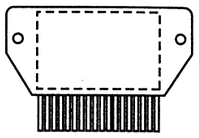


IC501 753012GC

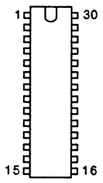


Switch ON / OFF P.C.B.
Platine inter M / A
Ltpl. EIN / AUS - Schalter
Platina interruptor
Piastra interrutore



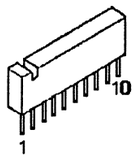


STK4132



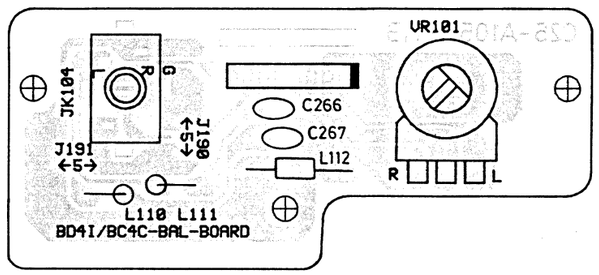
LA1851

Balance P.C.B.
Platine balance
Ltpl. balance
Piastra balance
Platina balance



LB1641

2SA1015
2SA1346
2SC1815
2SC2120



Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

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